

SEQUENCE LISTING

<110> Merck & Co., Inc.

<120> DNA MOLECULES ENCODING HG51, A
G PROTEIN-COUPLED RECEPTOR

<130> 20351 PCT

<150> 60/109,717

<151> 1998-11-24

<160> 15

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1537

<212> DNA

<213> Homo sapien (human)

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<210> 2

<211> 402

<212> PRT

<213> Homo sapien (human)

<400> 2

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 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu
 35 40 45
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val
 50 55 60
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 65 70 75 80
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 85 90 95
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 100 105 110
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 115 120 125
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 130 135 140
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
 145 150 155 160
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 165 170 175
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 180 185 190
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu
 195 200 205
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 210 215 220
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 225 230 235 240
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 245 250 255
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 260 265 270
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 305 310 315 320
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
 325 330 335
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 340 345 350
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
 355 360 365
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp
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 Pro Leu

<210> 3

<211> 395
 <212> DNA
 <213> Homo sapien (human)

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 tgcatttgtg actggaaactc ttctcgaaga ggctgccgct aaaccgcgtcc cacacgcagc 180
 ccacgggtgc ccacacccag ccgttcctca ggcaggacac gaaggtaaag gtgaccccgga 240
 agaggtacac agcagggtcgc tgaggctgat gttgaccagg aggaggtgag tgggagtgcg 300
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 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

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<210> 5
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

<400> 6
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<210> 7
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

<400> 7

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22

<210> 8

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide

<400> 8

gctgggcgctc ggcaacaa

18

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 9

caggcaggac acgaaggtaa

20

<210> 10

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 10

ggtcgctgag gctgatgttg ac

22

<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 11

ggggatgtgc tgcaaggcga

20

<210> 12

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 12

ccagggtttt cccagtcacg ac

22

<210> 13
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

<400> 13
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25

<210> 14
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

<400> 14
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25

<210> 15
 <211> 348
 <212> PRT
 <213> Homo sapien (human)

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 20 25 30
 Glu Pro Trp Gln Phe Ser Met Leu Ala Ala Tyr Met Phe Leu Leu Ile
 35 40 45
 Val Leu Gly Phe Pro Ile Asn Phe Leu Thr Leu Tyr Val Thr Val Gln
 50 55 60
 His Lys Lys Leu Arg Thr Pro Leu Asn Tyr Ile Leu Leu Asn Leu Ala
 65 70 75 80
 Val Ala Asp Leu Phe Met Val Leu Gly Gly Phe Thr Ser Thr Leu Tyr
 85 90 95
 Thr Ser Leu His Gly Tyr Phe Val Phe Gly Pro Thr Gly Cys Asn Leu
 100 105 110
 Glu Gly Phe Phe Ala Thr Leu Gly Gly Glu Ile Ala Leu Trp Ser Leu
 115 120 125
 Val Val Leu Ala Ile Glu Arg Tyr Val Val Val Cys Lys Pro Met Ser
 130 135 140
 Asn Phe Arg Phe Gly Glu Asn His Ala Ile Met Gly Val Ala Phe Thr
 145 150 155 160
 Trp Val Met Ala Leu Ala Cys Ala Ala Pro Pro Leu Ala Gly Trp Ser
 165 170 175
 Arg Tyr Ile Pro Glu Gly Leu Gln Cys Ser Cys Gly Ile Asp Tyr Tyr
 180 185 190

Thr	Leu	Lys	Pro	Glu	Val	Asn	Asn	Glu	Ser	Phe	Val	Ile	Tyr	Met	Phe
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Val	Val	His	Phe	Thr	Ile	Pro	Met	Ile	Ile	Ile	Phe	Phe	Cys	Tyr	Gly
	210					215					220				
Gln	Leu	Val	Phe	Thr	Val	Lys	Glu	Ala	Ala	Ala	Gln	Gln	Gln	Glu	Ser
225					230					235				240	
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Met	Val	Ile	Ala	Phe	Leu	Ile	Cys	Trp	Val	Pro	Tyr	Ala	Ser	Val	Ala
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Phe	Tyr	Ile	Phe	Thr	His	Gln	Gly	Ser	Asn	Phe	Gly	Pro	Ile	Phe	Met
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Thr	Ile	Pro	Ala	Phe	Phe	Ala	Lys	Ser	Ala	Ala	Ile	Tyr	Asn	Pro	Val
	290					295					300				
Ile	Tyr	Ile	Met	Met	Asn	Lys	Gln	Phe	Arg	Asn	Cys	Met	Leu	Thr	Thr
305					310					315				320	
Ile	Cys	Cys	Gly	Lys	Asn	Pro	Leu	Gly	Asp	Asp	Glu	Ala	Ser	Ala	Thr
			325						330					335	
Val	Ser	Lys	Thr	Glu	Thr	Ser	Gln	Val	Ala	Pro	Ala				
			340					345							